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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	15	john near alcorn.in.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:17
S2	10	eric near herness.in.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:18
S3	3	arthur near jolin.in.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:21
S4	9	teresa near kan.in.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:22
S5	5	kevin near sutter.in.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:22
S6	69236	(ibm or "international business machines").as.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:22
S7	13	S6 and (bean and specification).clm.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:24
S8	2	S6 and (persistence adj bean).clm.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:24
S9	759	717/114,118.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:25
S10	40	S9 and ejb	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:25
S11	36	S10 and (@pd<"20040422" or @ad<"20040422" or @prad<"20040422" or @rlad<"20040422")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:46
S12	7	("5812849" | "5890160" | "5899990" | "6269373" | "6298353" | "6338068" | "6557100").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/25 09:42
S13	20	container$1managed adj bean	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:46

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S15	1164	ejb and j2ee	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:54
S16	381	S15 and data$1base and legacy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:54
S17	180	S16 and jdbc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:55
S18	20	S17 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 10:02
S19	57	ejb same (legacy adj (software or program or application or procedure))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 10:02
S20	56	S19 and (@pd<"20040422" or @ad<"20040422" or @prad<"20040422" or @rlad<"20040422")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 10:03

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S22	7	(US-20020147962-$ or US-20020004856-$).did. or (US-6889227-$ or US-6842905-$ or US-6269373-$ or US-5899990-$). did. or (WO-2065277-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2007/04/25 14:49
S24	1	S22 and (ims or cics or "flat file")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 14:51

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1 **Distributed systems and grid computing (DSGC): J2EE server scalability through EJB ■ replication**
Sylvain Sicard, Noel De Palma, Daniel Hagimont
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: ▣ pdf(568.10 KB)   Additional Information: full citation, abstract, references, index terms

With the development of Internet-based business, Web applications are becoming increasingly complex. The J2EE specification aims at enabling the design of such web application servers. These servers have to ensure scalability and availability of the supported applications. Scalibility can be achieved using replication techniques or partitionning techniques. The aim of this paper is to compare these approaches. In a J2EE web application server, one important component is the EJB tier. In this con ...

Keywords: EJB, J2EE, partition, replication, scalability

2 **Migrating E-commerce database applications to an enterprise Java environment**   ■
Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing
November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research CASCON '01**
Publisher: IBM Press
Full text available: ▣ pdf(572.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabean, migration, relational-object mapping

3 **Performance and scalability of EJB applications**   ■
Emmanuel Cecchet, Julie Marguerite, Willy Zwaenepoel
November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11
Publisher: ACM Press

Full text available: ⬛ pdf(306.80 KB)   Additional Information: full citation, abstract, references, citings

We investigate the combined effect of application implementation method, container design, and efficiency of communication layers on the performance scalability of J2EE application servers by detailed measurement and profiling of an auction site server.We have implemented five versions of the auction site. The first version uses stateless session beans, making only minimal use of the services provided by the Enterprise JavaBeans (EJB) container. Two versions use entity beans, one with container- ...

Keywords: EJB container design, communication optimization, performance, profiling, scalability

4   Information systems: User interface code generation for EJB-based data models   ⬛
     using intermediate form representations
     Branko Milosavljević, Milan Vidaković, Srdjan Komazec, Gordana Milosavljević
     June 2003 **Proceedings of the 2nd international conference on Principles and practice
               of programming in Java PPPJ '03**
     Publisher: Computer Science Press, Inc.
     Full text available: ⬛ pdf(133.64 KB)   Additional Information: full citation, abstract, references

The use of J2EE platform enables data model development based on EJB components. Data modeling concepts of EJB technology, although resembling those of relational databases, are different and need new methods for automated user interface code generation. This paper presents a method for user interface code generation based on intermediate form representations that can be used to build equivalent user interfaces in multiple environments like standalone GUI applications, web, or wireless devices. ...

5   Industrial sessions: middle-tier caching: Web caching for database applications with   ⬛
  ◈ Oracle Web Cache
     Jesse Anton, Lawrence Jacobs, Xiang Liu, Jordan Parker, Zheng Zeng, Tie Zhong
     June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on
               Management of data SIGMOD '02**
     Publisher: ACM Press
     Full text available: ⬛ pdf(601.17 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                                                 terms

We discuss several important issues specific to Web caching for content dynamically generated from database applications. We present the techniques employed by Oracle Web Cache to address these issues. They include: content disambiguation based on information in addition to the URL, transparent session management, partial-page caching for personalization, and broad-scope invalidation with performance assurance heuristics.

Keywords: caching, consistency, disambiguation, dynamic content, fragment, heuristics, invalidation, partial-page caching, performance, personalization, session, template

6   Comparing industry benchmarks for J2EE application server: IBM's trade2 vs Sun's   ⬛
     ECperf
     Yan Zhang, Anna Liu, Wei Qu
     February 2003 **Proceedings of the 26th Australasian computer science conference –
                   Volume 16 ACSC '03**
     Publisher: Australian Computer Society, Inc.
     Full text available: ⬛ pdf(363.74 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                                                 terms, review

As the Internet and enterprise wide distributed systems become more prevalent in business IT systems, numerous advanced COTS (commercial off-the-shelf) middleware technologies have appeared on the market. One such leading middleware technology type is Sun's Java 2 Enterprise Edition (J2EE) technology. At present, there is an abundance of J2EE application server implementations in the marketplace with almost no discerning

differences. The different product vendors all claim to have implemented th ...

Keywords: COTS, benchmark, component-based system, empirical results, middleware

7   Middleware for replication and transactions: Alternative edge-server architectures for
    enterprise JavaBeans applications
Avraham Leff, James T. Rayfield
October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on**
            Middleware Middleware '04
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(359.00 KB)   Additional Information: full citation, abstract, references, citings

Edge-server architectures are widely used to improve web-application performance for
non-transactional data. However, their use with transactional data is complicated by the
need to maintain a common database that is shared among different edge-servers. In this
paper we examine the performance characteristics of alternative edge-server
architectures for transactional Enterprise JavaBeans (EJBs) applications. In one
architecture, a remote database is shared among a number of edge-servers; in anot ...

8   Q focus: component technologies: Untangling enterprise Java
Chris Richardson
June 2006 **Queue**, Volume 4 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(366.42 KB)
              📄 htm(24.95 KB)   Additional Information: full citation, abstract, references, index terms

A new breed of framework helps eliminate crosscutting concerns.

9   Software engineering and middleware: Mapping component specifications to
    Enterprise JavaBeans implementations
Yi Liu, H. Conrad Cunningham
April 2004 **Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**
Publisher: ACM Press
Full text available: 📄 pdf(377.36 KB)   Additional Information: full citation, abstract, references, index terms

Component-based software development has become an important approach to building
complex software systems. Much research focuses on component specification to achieve
the advantages of the component-based approach in theory. Most of this research pays
little attention to the mappings from component specifications to component
implementations. However, the mappings are important because they determine whether
the implementations perform satisfactorily to meet the specifications. After presenting ...

Keywords: Enterprise JavaBeans, component software, design mapping

10 Databases: Safe query objects: statically typed objects as remotely executable
    queries
William R. Cook, Siddhartha Rai
May 2005 **Proceedings of the 27th international conference on Software engineering**
          ICSE '05 , Proceedings of the 27th international conference on Software
          engineering ICSE '05
Publisher: ACM Press, IEEE Computer Society
Full text available: 📄 pdf(161.08 KB)   Additional Information: full citation, abstract, references, citings, index
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Developers of data-intensive applications are increasingly using persistence frameworks
such as EJB, Hibernate and JDO to access relational data. These frameworks support both
transparent persistence for individual objects and explicit queries to efficiently search
large collections of objects. While transparent persistence is statically typed, explicit

queries do not support static checking of types or syntax because queries are manipulated as strings and interpreted at runtime. This paper pres ...

Keywords: JDO, persistence, type safety

11 Applications of Java programming: Automatic code generation for database-oriented web applications ⬛
Branko Milosavljević, Milan Vidaković, Zora Konjović
June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002 PPPJ '02/IRE '02**
Publisher: National University of Ireland

Full text available: 📄 pdf(448.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

The paper presents an architecture for database-oriented web applications. Then it introduces concepts which form a foundation for a code generation tool that supports the software construction process in the web application domain. The tool follows simple rules about mapping JavaBean components to the database schema and generates components, as well as a set of standardized JSP pages. The mapping is specified as an instance of an XML Schema document presented here. Efficiency of this tool is a ...

12 At the forge: Entity beans ⬛
Reuven M. Lerner
January 2002 **Linux Journal**, Volume 2002 Issue 93
Publisher: Specialized Systems Consultants, Inc.
Full text available: 🖼 html(19.93 KB)   Additional Information: full citation, index terms

13 Demo sessions: Demo group E: System issues: GignoMDA: exploiting cross-layer optimization for complex database applications ⬛
Dirk Habich, Sebastian Richly, Wolfgang Lehner
September 2006 **Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006**
Publisher: VLDB Endowment
Full text available: 📄 pdf(1.33 MB)   Additional Information: full citation, abstract, references, index terms

Database Systems are often used as persistent layer for applications. This implies that database schemas are generated out of transient programming class descriptions. The basic idea of the MDA approach generalizes this principle by providing a framework to generate applications (and database schemas) for different programming platforms. Within our GignoMDA project [3]--which is subject of this demo proposal--we have extended classic concepts for code generation. That means, our approach provide ...

14 Q focus: databases: A call to arms ⬛
◈ Jim Gray, Mark Compton
April 2005 **Queue**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(448.02 KB)
🖼 html(37.02 KB)   Additional Information: full citation, abstract, citings, index terms

Long anticipated, the arrival of radically restructured database architectures is now finally at hand.

15 Middleware: Designing a test suite for empirically-based middleware performance prediction ⬛
Yan Liu, Ian Gorton, Anna Liu, Ning Jiang, Shiping Chen

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(1.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

One of the major problems in building large-scale enterprise systems is anticipating the performance of the eventual solution before it has been built. This problem is especially germane to modern Internet-based e-business applications, where failure to provide high performance and scalability can lead to application and business failure. The fundamental software engineering problem is compounded by many factors, including application diversity, architectural trade-offs and options, COTS compone ...

Keywords: COTS, component-based system, empirical results, middleware, performance modelling, prototype

16 Enabling dynamic content caching for database-driven web sites

K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(319.67 KB)

Additional Information: full citation, abstract, references, citings, index terms

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*

Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

17 A case for test-code generation in model-driven systems

Matthew J. Rutherford, Alexander L. Wolf

September 2003 **Proceedings of the 2nd international conference on Generative programming and component engineering GPCE '03**

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(283.86 KB)

Additional Information: full citation, abstract, references, citings, index terms

A primary goal of generative programming and model-driven development is to raise the level of abstraction at which designers and developers interact with the software systems they are building. During initial development, the benefits of abstraction are clear. However, during testing and maintenance, increased distance from the implementation · can be a disadvantage. We view test cases and test harnesses as an essential bridge between the high-level specifications and the implementation. As such, ...

18 J2EE infrastructure scalability and throughput estimation

Paul Brebner, Jeffrey Gosper

December 2003 **ACM SIGMETRICS Performance Evaluation Review**, Volume 31 Issue 3
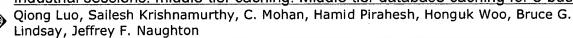
Publisher: ACM Press

Full text available: 📄 pdf(2.91 MB)

Additional Information: full citation, abstract, references

ECperf, the widely recognized industry standard J2EE benchmark, has attracted a large number of results submissions and their subsequent publication. However, ECperf places little restriction on the hardware platform, operating systems and databases utilized in the benchmarking process. This, combined with the existence of only two primary metrics, makes it difficult to accurately compare the results, or the performance of the Application Server products themselves. By mining the full-disclosure ...

19 Industrial sessions: middle-tier caching: Middle-tier database caching for e-business

Qiong Luo, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

20 RoadMapAssembler: a new pattern-based J2EE development tool

Jun Chen, Steve MacDonald

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(168.81 KB)   Additional Information: full citation, abstract, references, index terms

The quality of a J2EE web application depends on both the correctness of the code as well as the efficiency and flexibility of its architecture. Unfortunately, the design and development process is complex and includes tedious coding details, making it error-prone. Part of the problem lies in the incomplete abstractions provided by the J2EE specification. The artifacts of the distributed system environment are still present in applications and cannot be ignored, notably interfaces for distribute ...

Keywords: deployment information, design patterns, development tool, frameworks, java 2 Enterprise Edition (Version 2.1), name space

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IET CNF	IET Conference Proceeding
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        Moon-Soo Lee; Seok-Gyoo Shin; Young-Jong Yang;
        Systems, Man, and Cybernetics, 2001 IEEE International Conference on
        Volume 3, 7-10 Oct. 2001 Page(s):1988 - 1992 vol.3
        Digital Object Identifier 10.1109/ICSMC.2001.973686

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        You-Hee Choi; Oh-Cheon Kwon; Gyu-Sang Shin;
        Euromicro Conference, 2002. Proceedings. 28th
        4-6 Sept. 2002 Page(s):40 - 46
        Digital Object Identifier 10.1109/EURMIC.2002.1046131

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